



# HMA Connect

## #8

Dear Friends & Colleagues,

As I am writing this, we are still in Movement Control Order to fight the Covid-19 cases in Malaysia. I pray all of us are in good health. Do ensure you practice good hygiene everyday!

In year 2020, a lot of things had happened around us, be it success stories or lesson learnt. We would like to thank each and every one of you for your relentless contributions. For year 2021, let's work together to further improve the performance and compliance to governance. As we had completed the first quarter of year 2021, it is not too late to reflect on what we have done, what has worked, what has not and what could be done better.

In this edition, we will be sharing with you, MTAB and metering activities performance for year 2020. Besides that, a bit of information on new guideline and simplified reporting that we will start using this year. And last but not least, as usual, the articles written by our own HMA team on the events and happenings throughout Q1 2021.



Salmi

Ir Ts Azrul



Firdaus



Kamarul



Dzuhailah



Hanisah



Shima



Ili Izyan

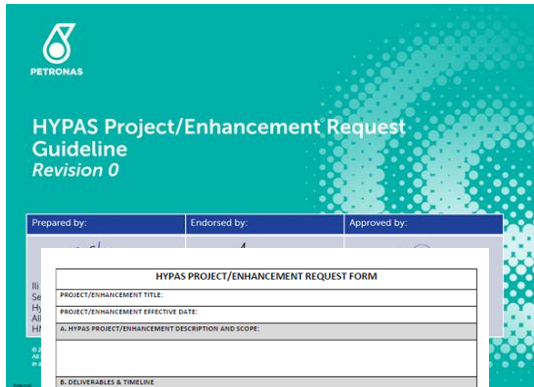
Hope you enjoy reading our HMA Connect! Hopefully this HMA Connect Newsletter will be a good reference on measurement and allocation practices.

#StaySafe #StayAtHome #KitaJagaKita

Salmizana



# HYPAS Project/ Enhancement Request Guideline



Hydrocarbon Production Allocation System (HYPAS) is established by PETRONAS as primary tool for Upstream PSC/field production allocation in Malaysia. In view of continuous system project enhancement in ensuring updated production allocation networks, PETRONAS successfully established HYPAS Project/ Enhancement Request Guideline for transparency and standardized process flow and requirement for all PACs to conduct system enhancement in HYPAS.

The approved HYPAS Request Form will be based on mutual agreement by respective parties for the project/enhancement and will be part of supporting documents for HYPAS back charging processes. We look forward for effective HYPAS project and enhancement process flow journey in future with all PACs!



**HMAPEDIA**

## Metering Validation Report Simplification

In view of 2020 metering validation Compliance Performance (CCI), we observed that PACs were unable to fully comply with the requirement to submit the Validation report timely within 30days after validation completed. Among the challenges are late submission of full report by service provider to PACs. MPM introduced simplified validation report to mitigate this in 2019. Through this initiative, PACs were given flexibility to submit a signed simplified validation report in IMMIS, which may consist of:

- metering system info, witness list, test equipment list
- summary of instruments validated and instrument error

In practice, PAC or service provider should be able to issue this document even prior demobilization from site. PAC should retain the full validation report for audit purposes.





# Remote Crew and Minimum Crew Operations for Lifting Activities

IMPLEMENTATION GUIDELINE		
Remote Crew and Minimum Crew Operations for Lifting Activities		
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<p><b>IMPLEMENTATION GUIDELINE</b>  <b>Remote Crew and Minimum Crew Operations for Lifting Activities</b></p>		

PETRONAS is establishing a new way of conducting lifting operations as an initiative to reduce risks of COVID-19 spreading at Offshore and Onshore Terminals. There are cases of COVID-19 recorded during lifting operations at Offshore Terminal, hence require more stringent approach to avoid future recurrence.

In this initiative, PETRONAS aimed to reduce number of lifting crew at site during lifting operations by implementing Remote Crew Operations or Minimum Crew Operations for lifting activities. For Remote Crew Operations, only two lifting crew (pilot and mooring master) will be allowed onsite whereas for Minimum Crew Operations, four lifting crew (pilot, mooring master, independent surveyor, and buyer surveyor) will be allowed onsite. The remaining Lifting Crew will be stationed at agreed onshore location and will carry out the same roles and responsibility from onshore using digital platform.

Lifting Crew	Normal Crew Operations	Remote Crew Operations	Minimum Crew Operations
Independent Surveyor			<sup>*1</sup>
Buyer Surveyor			<sup>*1</sup>
Shipping Agent			
Pilot			
Mooring Master			
Loading Assistant			
Customs Officer			

Offshore  
 Onshore

Note:  
 1. Maximum of 1 Independent Surveyor and 1 Buyer Surveyor



# Did You Know? WPB Go!

Experience the seamless way of managing WPB processes

## WPB Submission made easy

A whole new experience of data entry with online and offline approaches

## Keeping up with Approved WPB

Real time update of overall PSC approved WPB including Budget Revision

## Online Budget Revision

Forget all the papers. Additional Budget Request, Conditional Lifting and Budget Transfer all on your screen



## Keep track with the past

All historical data readily available for you to plan better future

## Coherent User Interface design

Seamless and steady experience with delightful system performance based on the latest SAP UI5 technology

## Consistent Master Data between WPB & ARPR exercise

Eliminate data redundancy with centralized project master data



## Virtual Remote Witnessing; What do you think?

During the Hydrocarbon Measurement and Allocation (HMA) Community of Practice (CoP) virtual workshop on 26th November 2020, a survey was done to gauge and understand the acceptance of virtual remote witnessing amongst PAC. A set of questions given to gather and analyze PACs and Operator perception on effectiveness, scalability and gauging their interest moving forward.

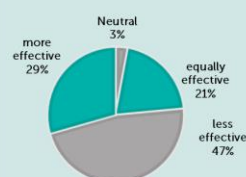
Survey demography						
Discipline/ Skill	Years of working experience			Virtual Remote Witnessing Experience		PACs/ Operator
	<10 years	10-15 years	>15 years	Yes	No	
Metering Allocation Instrument Project/ Audit Production Delivery Production Engineering Production Operations	55.9%	20.6%	23.5%	55.9%	44.1%	27

From the feedback received, it can be concluded that VRW has received positive response for future testing activities witnessing.

Let's make virtual remote witnessing as a new norm!

Generation-Z and millennials feel that VRW is more effective than on-site witnessing

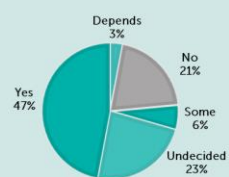
### Effectiveness



- 54% respondents (< 15 years experience) have participated in VRW and **AGREE** that it is *more effective* than on-site witnessing.

Majority of the respondents feels that VRW can be implemented to other equipment.

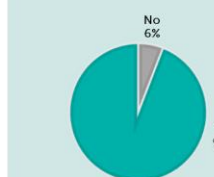
### Scalability



- 53% respondents feels that VRW approach can be extended to equipment other than metering system.
- Only 21% respondents feels that only metering system testing can apply VRW.

With more information on success story, respondents would be able to make informed decisions on VRW implementation.

### Interest



- 94% respondents would like hear to more on VRW implementation experiences.
- Majority of respondents who feels that VRW is *less effective* would like to hear more on VRW success stories.



STAY CONNECTED

# 2020 Metering Validation Compliance

0% 50% 100%

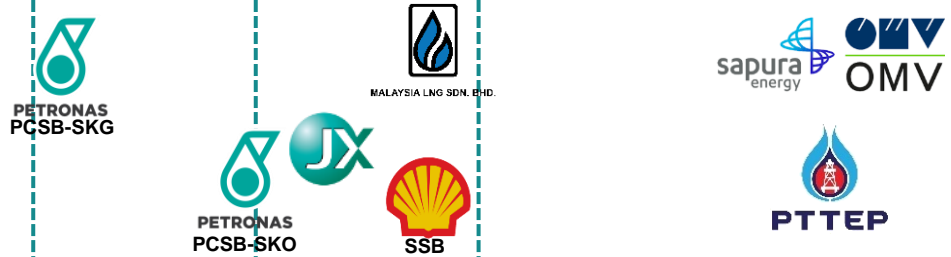
PM



SB



SK



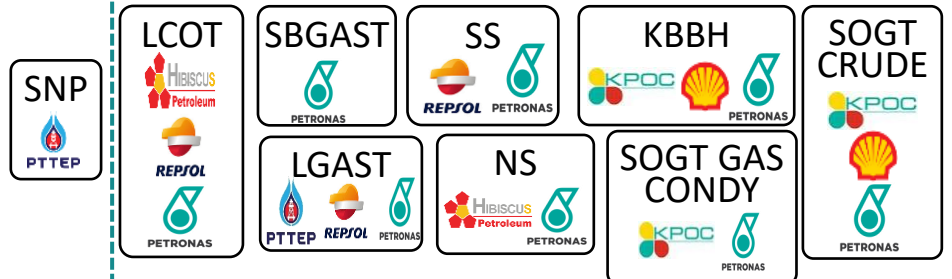
# 2020 Allocation Closing Compliance

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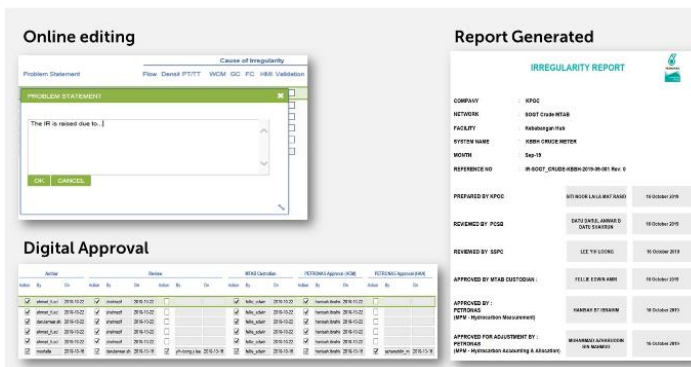




# IRIS User Training and Roll Out for Bintulu Gas and DGDM MTAB

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IRIS was successfully rolled out to Bintulu Gas MTAB and DGDM MTAB starting with January and February 2021 closing. The user training sessions were conducted virtually to PCSB SKG, PCSB SKO, SSB, SapuraOMV, NOEX, MLNG, PCSB SBA, PTTEP and BAGSF Customers respectively in several sessions between Jan-Feb 2021. With IRIS in place, it has significantly improved IR review and approval completion time besides having dedicated repository and transparent system integrity.



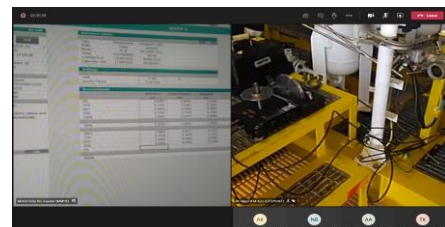
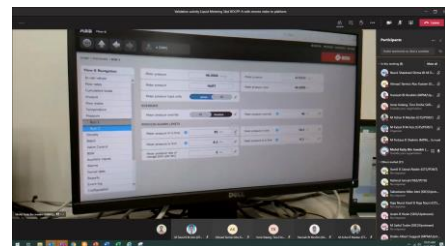
## Bokor CPP Virtual SAT

In 2020, we have seen efforts by PACs to adapt with the restriction while ensuring project delivery and operational commitment are executed according to plan. By leveraging digital platform (e.g. Ms Teams), seven remote witnessing for FATs are conducted in 2020 without the need to be physically present at the test facilities.

On 25 Jan - 10 Feb 2021, PCSB-SKO has successfully conducted SAT and commissioning for new Bokor liquid metering skid at Bokor-CPP. The testing marked as the first SAT witnessed virtually by representative from MPM, PCSB, SSB, and GTS. On site execution was performed by ABB, Wenmax, Wehaya, MMHE, Project Team, and PCSB rep.

Challenges were observed when executing the activities at site, mainly due to adverse weather and power interruption. However, this challenges does not have major impact to virtual witnesses as they are not bounded with the schedule changes.

For 2021, we look forward for more remote witnessing for testing activities as a testament to the effort in achieving cost and time optimization.



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# MPM POM and NMIM SIRIM Engagement



The engagement was conducted on 3rd March 2021 and attended by MPM POM Leadership team, MPM HMA and NMIM SIRIM management team. The event aims to enhance the relationship between MPM POM and NMIM SIRIM, promote more productive collaboration and partnership to safeguard the national interest in oil and gas industry.

The highlights of the engagement were the sharing session by both parties. MPM HMA shared on the brief history of PETRONAS establishment, core corporate structure, current overview of Malaysia exploration and production industry, HMA roles and responsibilities in managing the cash registers, and summary of collaboration efforts between PETRONAS and NMIM SIRIM. In addition, PETRONAS has also shared on Virtual Remote Witnessing experience and the steering towards implementation of virtual witnessing for project and operational activities as the primary option for PACs.

NMIM SIRIM on the other hand, presented on history of NMIM establishment and roles, achievement, contribution, international metrology system and national metrology matters towards countries development and growth.

Through this engagement, it is hoped that there will be more collaborative efforts between PETRONAS and NMIM SIRIM to further strengthen the ecosystem of oil and gas industry in Malaysia. This event has given some insights on PETRONAS plans in steering the industry and NMIM position to sustain national measurement system.

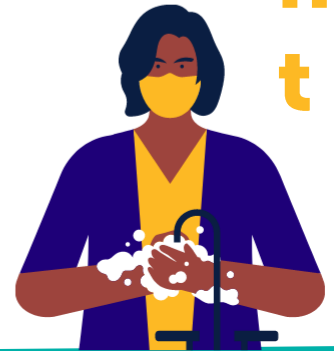
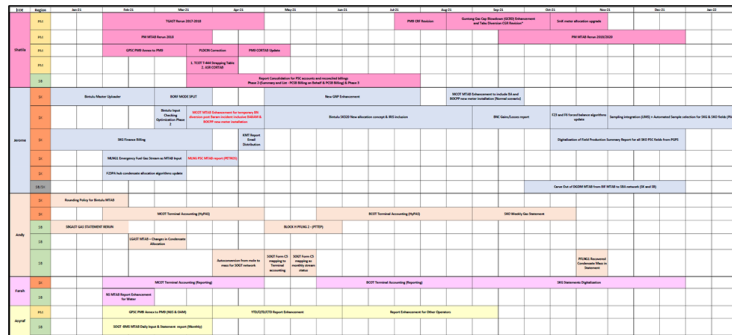


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# 2021 HYPAS Enhancement Workshop

On 3rd to 5th Feb 2021 MPM HAA together with HyPAS COE from UD organized the 2021 HyPAS Enhancement Workshop for SB and SK regions. The objective of the workshop is to align and prioritize all HyPAS Enhancements for 2021. This year, the annual workshops were conducted virtually via Microsoft Teams and joined by all PACs in their respective regions. To ensure the workshop is fully optimized and focus, the workshop was break into 4 sessions. Prior the workshop, PACs have submitted their list of HyPAS enhancements planned for 2021. Each enhancement was then deliberated in the workshop in terms of its urgency, readiness, and budget to determine its priority in the 2021 enhancement plan. This year, we have also managed to establish overall 2021 HyPAS Enhancement Gantt Chart which include all enhancements for PM, SB, and SK and tied back to the respective HyPAS COE resources. With this overall plan, all parties will have a one reference source for 2021 HyPAS Enhancements.

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## KBBH 2nd Level and PFLNG1 Assurance Program

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PETRONAS has successfully conducted KBBH 2nd Level and PFLNG1 Assurance Program on 8th until 19th February 2021 via virtual desktop assessment with KPOC as the Custodian to the MTAB Networks. The assessment covered KBBH, Malikai and PFLNG1 metering systems and MTAB in overall.

Thank you to KPOC and PFLNG1 team for the fullest commitment and cooperation in making the 1st Assurance program in 2021 a success in support towards continuous improvement to upstream metering system and allocation in Malaysia!

